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SEQUENCE LISTING

<110> Nichirei Corporation

<120> Primer and probe for detection of vibrio cholera or vibrio mimicus and method of using thereof

<130> PH-1967-PCT

<140>

<141>

<150> JP 2002/362878

<151> 2002-12-13

<160> 6

<170> PatentIn Ver. 2.1

<210> 1

<211> 885

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Consensus sequence of vibrio cholera and vibrio mimicus -gyrB

<400> 1

gtmtccggyg gtc trc acgg ggtagg tgc tcggtrgtka aygc sct btc waaaaa agtg 60  
ctr ctba cca tyt atc gygg ygg caa raty cayw cscaa ctt accatca ygg tgc ca 120  
caag cacc gt tgk ctg trgt rggt gakac w gac gta ccg gt act acc gt acg tt ct gg 180  
ccw agy gc ac aracy ttac caa tatc gaa tt y catt acg ac att y tgg c taa ac gy ct g 240  
cgt gag ct gt catt cct gaa yt ct gg cgt g tcg atc aacg tga ysgat ga rcgt ga aag aa 300  
gataaraa ag acc act tyat gt atg aagg k ggt att ca ag cg ttt g tka c ccactt gaa c 360  
cgy aaya aaaa cgcc ratcca tgar aag tm tt ccactt ya acca aag aacg tga agat gg c 420  
atc a g cgt gg aagt gg crat gc agt gg aay gat gg tt cc aag aaaa acat ct act gct tt 480  
acy aaca aca tycc ac aagc g tg at gg y ggt accc ayt tag cy gg tt ccg tg gt gc rt tg 540  
acc cgt actt tga aca acta ya tgg aya aaaa ga agg ct tct cga aaga aagc scaa gcr gca 600  
ac ct cgg ggt g at gat g cgc g tga agg ct ta ac r gcd g tkg tdt cgg t gaa ag trcc r gat 660  
cct taa att ct cr agcc aac caa agata ag ct rg tt ct t cgg arg tra a at cc gcr gtt 720  
gart cagc ya tga atg a gaa gct gg cr gat tt cct rg cgg aaa accc aag cga agc gaaa 780  
aac gttt gtt cga a gatt at tg at gcr gcr cgh gck cgt g a a gcv g cgc g taa agcmcgk 840  
gaa atg acyc gyc gta aagg cgc gytr g y thg cw ggyt trc ch 885

<210> 2

<211> 822

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Consensus sequence of vibrio cholera and vibrio mimicus -rpoD

<400> 2

acacgtgaag gygaaatcga tattgccaag cgcattgaag atgg tattaa ccaagttcaa 60  
agtgcgattg ctgagtatcc tgg aaccatc ccwtayat tc ttgarcagtt tgaymrkgtt 120

caggcmgaag arctacgtct sactgayctg atttcwggtt tcgttgaycc taacgacatg 180  
gaaaccgaag cgccaacygc kactcacatc gttcwgarc tytctgaagc sgatctcgck 240  
gatgaagatg aygmkgtcgy sgargatgaa gacgargatg aagaygaaga yggcgacggt 300  
gaaagyagcg acagcgaaga agaagtsggt atygaccctg arctsgctcg tgagaaattc 360  
aatgaactgc gcggyaagtt ccaaaacctg caattagcgg ttaatgaatt tggcgtgac 420  
agtmaycaag cwtctgaagc ktcarrcytr gtrytggata tyttccgyga attccgycta 480  
acaccaaarc aattygacca yttggttgaa actctgcgya cytcratgga tcgtgttcgy 540  
acccaagarc gyttggtrat gaaagcvgr gttgaagtcg cgaaratgcc raagaaatcr 600  
ttyatygcyc trtttacagg caatgaatcg aatgargart ggctbgataa agtvctygt 660  
tctgayaarc ctaygtasm raaagtmegt gagcaagaag amgakatygc ccgytcaaty 720  
caraaactdc aratgatcga rcargagacw tcactgtctg ttgarcgyat caaagacatc 780  
agccgtcgta tgtcwatcgg tgargcraaa gctcgccgtg cg 822

<210> 3

<211> 822

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Consensus sequence vibrio cholera-gyrB

<400> 3

acacgtgaag gygaaatcga tattgccaag cgcatgttgaag atggtattaa ccaagttcaa 60  
agtgcgattg ctgagtatcc tggaaccatc ccwtayattc ttgarcagtt tgaymrkgtt 120  
caggcmgaag arctacgtct sactgayctg atttcwggtt tcgttgaycc taacgacatg 180  
gaaaccgaag cgccaacygc kactcacatc gttcwgarc tytctgaagc sgatctcgck 240  
gatgaagatg aygmkgtcgy sgargatgaa gacgargatg aagaygaaga yggcgacggt 300

gaaagyagcg acagcgaaga agaagtsggt atygaccctg arctsgctcg tgagaaattc 360  
aatgaactgc gcggyaagtt ccaaaacctg caattagcgg ttaatgaatt tggtcgtgac 420  
agtmaycaag cwtctgaagc ktcarrcytr gtrytggata tyttccgyga attccgycta 480  
acaccaaarc aattygacca yttggttgaa actctgcgya cytcratgga tcgtgttcgy 540  
acccaagarc gyttggtrat gaaagcvgr gttgaagtcg cgaaratgcc raagaatcr 600  
ttyatygcyc trtttacagg caatgaatcg aatgargart ggctbgataa agtvctygt 660  
tctgayaarc ct当地tasm raaagtmegt gagcaagaag amgakatygc ccgytcaaty 720  
caraaaactdc aratgatcga rcargagacw tcactgtctg ttgarcgyat caaagacatc 780  
agccgtcgta tgtcwatcgg tgargcraaa gctgccgtg cg 822

<210> 4

<211> 822

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Consensus sequence of vibrio cholera -rpoD

<400> 4

acacgtgaag gtgaaatcga tattgccaag cgcatgtgaag atggtattaa ccaagttcaa 60  
agtgcgattt ctgagtatcc tggaaccatc ccttatattc ttgagcagtt tgatcgtgtt 120  
caggccgaag agctacgtct cactgacctg atttcaggtt tcgttgaycc taacgacatg 180  
gaaaccgaag cgccaaccgc gactcacatc gttctgagc tttctgaagc ggatctcgcg 240  
gatgaagatg atgctgtcgt cgaagatgaa gacgaagatg aagacgaaga tggcgacggt 300  
gaaagcagcg acagcgaaga agaagtgcgtt atcgaccctg aactggctcg tgagaaattc 360  
aatgaactgc gcggyaagtt ccaaaacctg caattagcgg ttaatgaatt tggtcgtgac 420  
agtcatcaag cttctgaagc gtcagactta gtgytggata tcttccgtga attccgycta 480  
acaccaaagc aattcgacca ctgggttggaa actctgcgca cttcaatgga tcgtgttcgc 540

acccaagaac gttggtrat gaaagcgta gttgaagtgc cgaagatgcc gaagaaatcg 600  
ttcatcgccc tatttacagg caatgaatcg aatgaagagt ggctggataa agtccttgct 660  
tctgacaagc cttagtgcgt gaaagtccgt gagcaagaag aagagatccg ccgttcaatt 720  
cagaaaactac aaatgatcga gcaagagaca tcactgtctg ttgaacgcataaaagacatc 780  
agccgtcgta tgtcaatcg tgaggcraaa gctcgccgtg cg 822

<210> 5

<211> 885

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Consensus sequence of vibrio mimicus -gyrB

<400> 5

gtctccgtg gtctcacacgg ggttaggtgtg tcggtagtga atgccctgtc agaaaaaagt 60  
ctgctbacca tttatcgtgg tggcaagatt cacacccaaa cttaccatca cggtgtgcca 120  
caaggcaccgt tgtctgttgtt gggtgagact gagcgtaccg gtactaccgt acgtttctgg 180  
ccttagtgcac agactttac caatatcgaa ttccattacg acattctggc taaacgyctg 240  
cgtgagctgt cattcctgaa ctctggcgtg tcgatcaagc tgacggatga gcgtgaagaa 300  
gataagaaaag accacttyat gtatgaaggt ggtattcaag cggttgtkac ccacttgaac 360  
cgtaayaaaaa cgccgatcca tgaaaaagta ttccacttca accaagagcg tgaagatggc 420  
atcagcgtgg aagtggcaat gcagtggAAC gatggtttcc aagaaaaacat ctactgcttt 480  
accaacaaca tyccacagcg tgatggcggt acccacttag cyggttccg tggtgcrttg 540  
acccgtactt tgaacaacta catggacaaa gaaggcttct cgaagaaagc scaagcrgca 600  
acctcgggtg atgatgcgcg tgaaggctt acrgcrgtgcg tktcggtgaa agtrccrgat 660  
cctaaattct cragccaaac caaagataag ctrgtttctt cggargtgaa atccgcgggtt 720  
gagtcagcca tgaatgagaa gctggcggtt ttcctggcgg aaaacccaaag cgaagcggaaa 780

aacgtttgtt cgaagattat tgatgcrgrcr cghgctcgtg aagcvgcgca taaagcacgt 840  
gaaatgacyc gtcgtaaagg cgcgctagay ytmgctggtt tgccw 885

<210> 6

<211> 822

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: consensus sequence of vibrio mimicus -rpoD

<400> 6

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agtgcgattt cttagtatcc tggaccatc ccatacatc ttgaaacagtt tgacaagggtt 120  
cagggcagaag aactacgtct gactgayctg atttctggtt tcgttgatcc taacgacatg 180  
gaaaccgaag cgccaaactgc tactcacatc ggttcagarc tctctgaagc cgatctcgct 240  
gatgaagatg acgaggtcgc ggaggatgaa gacgaggatg aagatgaaga cggcgacggt 300  
gaaagyagcg acagcgaaga agaagtgggt attgaccctg agctcgctcg tgagaaattc 360  
aatgaactgc gcggcaagtt ccaaaacctg caattagcgg ttaatgaatt tggtcgtgac 420  
agtaaccaag catctgaagc ttcaaggctg gtactggata tyttccgcga attccgccta 480  
acaccaaaaac aatttgcaca tttgggtgaa actctgcgtt cctcgatgga tcgtgttcgt 540  
acccaaagagc gyttgggtgat gaaagcvgtg gttgaagtgc cgaaaatgcc aaagaaatca 600  
tttattgcyc trtttacagg caatgaatcg aatgargaaat ggctygataa agtrctcgct 660  
tctgataarc cttatgtaca aaaagtacgt gagcaagaag acgatattcg ccgctcaatc 720  
caaaaaactkc agatgatcga acargagact tcactgtctg ttgagcgtat caaagacatc 780  
agccgtcgta tgtctatcgg tgaagcgaaa gctcgccgtg cg 822